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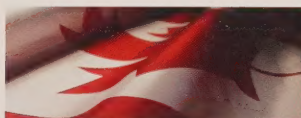
Job Futures

WORLD OF WORK



KNOWLEDGE MATTERS

SKILLS AND LEARNING
FOR CANADIANS



CANADA'S INNOVATION
STRATEGY

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Job Futures

WORLD OF WORK

Knowledge Matters:
Skills and **learning** hold
the **key** to better **jobs**

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jobfutures.ca



Acknowledgements

The producers of *Job Futures* would first like to thank all of their COPS (Canadian Occupational Projection System) partners who provided the information for their respective province/territory for the section "Job opportunities vary across Canada". The COPS partners include representatives from each provincial department of education or labour, each Human Resources Development Canada (HRDC) regional office, and from the Applied Research Branch of HRDC national headquarters. Secondly, they would like to thank all of the private and public sector experts from professional, trade and business associations, unions, sector councils and educational groups who reviewed profiles related to occupational groups within their area of expertise and provided valuable comments. Every effort was made to incorporate these comments, as this feedback provides validation and enrichment to the analysis undertaken by the Applied Research Branch, HRDC. However, these organizations cannot be held responsible for the information contained herein or for any errors that *Job Futures* may contain.



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MESSAGE FROM THE MINISTER OF HUMAN RESOURCES DEVELOPMENT CANADA

Welcome to *Job Futures: World of Work*, a Canadian guide to the jobs of today and tomorrow for students, parents, job seekers, teachers, and career and education counsellors.

Making career, education and training choices has never been easy. This is especially true in today's job market. It not only demands that we invest in education when we are young, but that we continue to invest in ourselves to keep pace with changing working conditions. In today's job market, knowledge brings personal success.

The Government of Canada is strongly committed to providing young Canadians with practical career information, to supporting all Canadians in their career and education choices, and to offering the best labour market information through such endeavours as *Job Futures*.

Job Futures profiles current and future labour market conditions in Canada by occupation and field of study. It provides helpful information on topics such as global labour market trends, the cost/benefits to education, and emerging labour and skill shortages that can lead to new employment opportunities. The *Job Futures* Web site has also been revamped to address your labour market information needs in a more accessible, user-friendly format. You can even take a quiz to help you determine what careers best suit your interests!

On February 12, 2002 the Government of Canada launched Canada's Innovation Strategy. Presented in two papers, the strategy outlines the factors that will drive economic growth and social development over the next decade. The Human Resources Development Canada paper, *Knowledge Matters: Skills and Learning for Canadians*, calls for a collaborative approach between all sectors of society to ensure Canadians have the tools they need to participate in Canada's workplace. The paper outlines a series of national goals and milestones for children and youth, post-secondary education, the adult labour force, and immigration. One of those goals is to ensure our children and youth get the best possible start in life.

We want our young Canadians to be equipped with the skills to take advantage of the opportunities offered in the new economy.

I am confident that you will find *Job Futures* an indispensable career-planning resource.

A handwritten signature in dark ink, reading 'Jane Stewart' in a cursive style.
Jane Stewart

Canada



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Choosing a **job** can be **hard work**

It's not easy to choose the job that's right for you. The world of work is changing rapidly. Whether you are a graduating student, someone looking for work or someone who wants a new career, you need up-to-date information to find the job that suits you.

GET ALL THE INFORMATION YOU CAN

Start by talking. Talk to a counsellor, a teacher, a friend or relative about jobs in Canada today. They may be able to help you more than you think.

Then explore the information sources at your school or library or on the Internet. Get all the information that will help you choose your job.

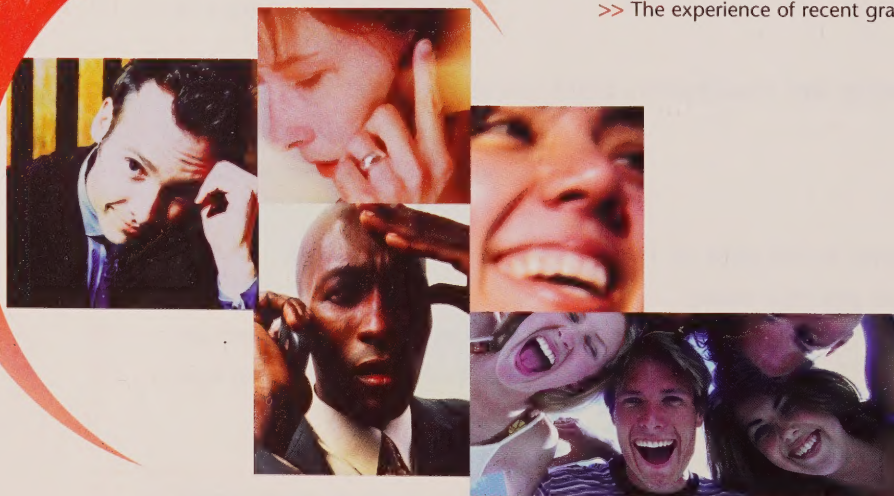
Job Futures will set you off in the right direction and show you where to find the information you need. It will show you where the jobs are now and where they'll be in the future. You'll be able to see your chances of getting different jobs, how much they will pay and the training or education you need.

VISIT *JOB FUTURES* ON THE NET

At www.jobfutures.ca, you will find information about 226 occupational groups and 155 fields of study.

Get the latest information on:

- >> The most promising jobs now and in the future;
- >> Your career options;
- >> Where the jobs are across Canada;
- >> What you can expect to earn; and
- >> The experience of recent graduates.



Job Futures:

A Canadian guide for tomorrow's most promising jobs

Job Futures is a website that provides you with information on the most promising jobs, now and in the future. It helps you make decisions about education, skills and career planning.

Job Futures gives you the latest information on the changing world of work.

Job Futures helps you explore job options and shows you what education and skills you will need to get them.

Job Futures includes:

- >> Overviews of the latest labour market and economic trends;
- >> New industries, the jobs they offer and the skills needed to get them;
- >> How education and skill development affect earnings;
- >> A list of jobs and skills in shortage across Canada; and
- >> Information on current and future labour market conditions for 226 occupational groups and 155 fields of study.

Job Futures has been developed by Human Resources Development Canada specialists in consultation with over 125 educational and professional organizations, sector councils, and federal/provincial/territorial governments across Canada.

WHO CAN USE *JOB FUTURES*

Job Futures is useful for all Canadians interested in the current and future labour market and the links between education/skills and the world of work. They include:

- >> Students making educational and career decisions;
- >> Workers thinking about upgrading their skills or a career change;
- >> Unemployed persons exploring job prospects and training opportunities;
- >> People re-entering the job market;
- >> Career/education professionals advising clients on career choices or the prospects of finding work;
- >> Teachers informing students on career and education planning; and
- >> Parents helping their children plan for the future.

jobfutures.ca



Over the next five years, almost a 1,000,000 new jobs will likely be created

THERE WILL BE JOB OPPORTUNITIES IN ALL MAJOR OCCUPATIONAL GROUPS

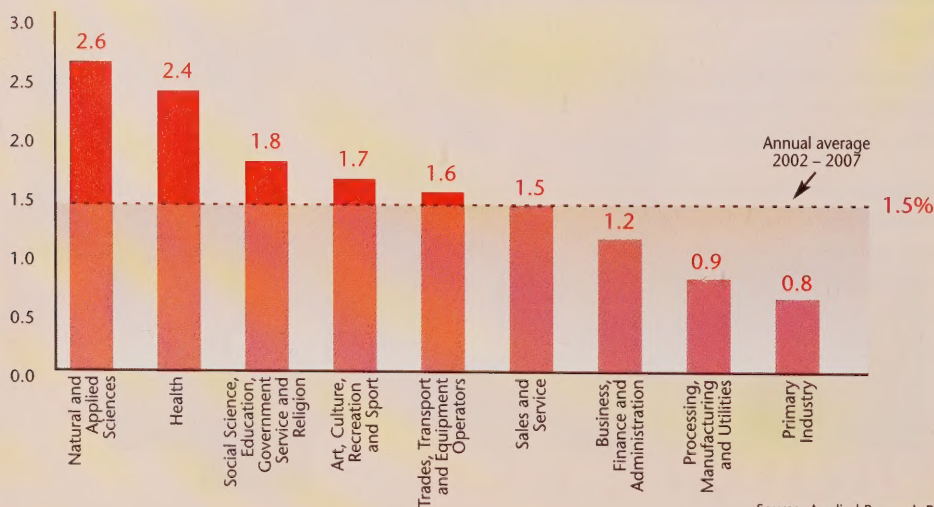
Job growth will be the fastest in Health, in Natural and Applied Sciences, and in Social Science, Education, Government Service and Religion:

- >> Population ageing and expected increases in public spending will stimulate employment in the health group;
- >> The move towards a knowledge-based economy is creating jobs in the sciences; and
- >> To acquire and maintain the skills needed for most jobs now and in the future, the need for college and university education/training will be greater, thus increasing job opportunities in the education sector.

On the other hand, job growth is expected to be slow in Processing, Manufacturing and Utilities, due to the loss of market share in the auto industry and the slowdown in the high-technology industry. Job growth will be the slowest in Primary Industry because of resource constraints and the increasing difficulty for resource-based industries in accessing foreign markets.

>> ABOUT 70% OF ALL NEW JOBS CREATED OVER THE NEXT FIVE YEARS ARE EXPECTED TO REQUIRE SOME FORM OF POST-SECONDARY EDUCATION/TRAINING <<

JOB GROWTH BY BROAD OCCUPATIONAL GROUPING (%)



Source: Applied Research Branch, HRDC.

Retirements will account for an additional million job openings over the next five years

RETIREMENTS WILL LEAD TO JOB OPPORTUNITIES IN ALL MAJOR OCCUPATIONAL GROUPS

In addition to new job openings as a result of increased economic activity, retirements will also create job opportunities.

Sales and Service, and Business, Finance and Administration will account for more than 45% of all retirements over the next five years.

Some groups with fewer workers will also be significantly affected by retirements as workers in these groups are generally older or tend to retire earlier (e.g. Social Science, Primary Industry, Health).

>> OCCUPATIONS REQUIRING A HIGHER LEVEL OF EDUCATION/ TRAINING WILL ACCOUNT FOR TWO THIRDS OF JOB OPPORTUNITIES ARISING FROM RETIREMENTS <<

Retirements over the next five years

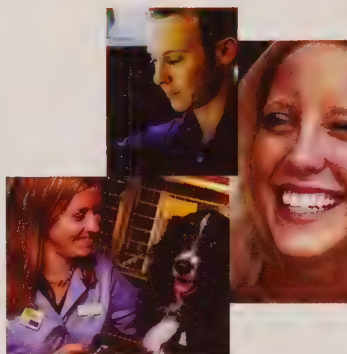
OCCUPATIONAL GROUP	NUMBER OF RETIREES	PROPORTION OF RETIREES (%)	RATE OF RETIREMENT (%)
Sales and Service	270,000	25	1.4
Business, Finance and Administration	225,000	21	1.6
Trades, Transport and Equipment Operators	148,000	14	1.3
Social Science, Education, Government Service and Religion	130,000	12	2.6
Health	73,000	7	1.7
Processing, Manufacturing and Utilities	72,000	7	1.1
Natural and Applied Sciences	70,000	7	1.4
Primary Industry	45,000	4	1.8
Art, Culture, Recreation and Sport	33,000	3	1.7
TOTAL	1,066,000	100	1.5

Source: Applied Research Branch, HRDC.

Tomorrow's most promising jobs

There's a strong link between education and training and your chances of finding the job you want. More and more, your chances of finding the job that interests you will depend on the education and training choices you make today.

Check out the occupations and fields of study listed below. These represent some of the areas of work and study that offer the most promising job opportunities. Jobs considered to be the most promising are those where the chances of finding work are relatively strong, the chances of employment loss are relatively weak and earnings are relatively high.



Most promising occupations

HEALTH Professional occupations such as physicians, dentists, pharmacists, registered nurses | Medical technologists and technicians | Dental hygienists and therapists | Ambulance attendants | Elemental medical and hospital assistants | **INFORMATION TECHNOLOGIES** Computer systems analysts and engineers | **EDUCATION** University professors | College and other vocational instructors | Administrators in education and training | **ENGINEERING AND SCIENCE** Physical science professionals | Engineers | Electronic service technicians (household and business equipment) | **BUSINESS** Human resources professionals | Business service professionals | **MANAGEMENT** Managers in public administration | Construction managers | Financial and human resources managers | Managers in health care and social services | Sales, marketing and advertising managers | Information systems and data processing managers | Sales and service supervisors | Supervisors in manufacturing and processing | Supervisors in mining, oil and gas | Contractors and supervisors, trades and related workers | **OTHER OCCUPATIONS** Judges, lawyers and Quebec notaries | Psychologists | Paralegal and related occupations | Police officers and firefighters | Technical sales specialists in wholesale trade | Aircraft mechanics and inspectors |

Most promising fields of study

MASTER'S Commerce – Business administration | Specialized administration | Basic medical sciences | Medical and surgical specialties | Health | Nursing | Chemistry | Computer science | Geology | Physics | Psychology | Engineering | **UNDERGRADUATE** Specialized administration | Architecture | Medicine (MD) | Health | Dentistry | Nursing | Pharmacy | Forestry | Veterinary sciences and medicine | Chemistry | Computer science | Geology | Physics | Law | Engineering | **COMMUNITY COLLEGE/CEGEP** Marketing | Retail sales | Dental hygiene and assistant technologies | Medical laboratory technologies | Nursing | Radiography, radiation therapy and nuclear medicine technologies | Computer science | Protection and correction services | **TRADE/VOCATIONAL** Nursing aide and orderly | Computer science |

New industries offer new opportunities

If you are looking for a job you should look at what is happening in these fast-growth industries before making your choice. There are jobs in these industries for people with a wide range of education and training. Look at the following examples:



ENVIRONMENT

UNIVERSITY

- biophysicist
- agrologist
- specialist in geomatics
- hydrogeologist

COLLEGE/TECHNICAL

- air quality specialist
- environmental technologist
- pollution prevention officer
- environmental inspector

HIGH SCHOOL OR LESS

- landfill equipment operator
- silviculture and forestry worker
- aquaculture and marine harvest labourer

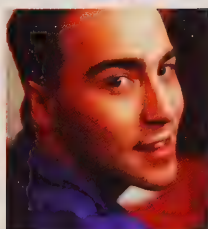
BIOTECHNOLOGY

UNIVERSITY

- biologist: cellular, molecular, plant, animal
- biochemist
- biophysicist

COLLEGE/TECHNICAL

- chemical technician and technologist
- biological technician and technologist
- water supply manager



AEROSPACE

UNIVERSITY

- aeronautics specialist
- aerospace engineer
- electrical engineer
- sales and marketing specialist

COLLEGE/TECHNICAL

- mechanic
- aircraft inspector
- machinist
- tool and die maker
- industrial design technologist

HIGH SCHOOL OR LESS

- assembler
- machining tool operator
- aircraft electronic assembler

MULTIMEDIA

UNIVERSITY/COLLEGE/TECHNICAL

- multimedia producer
- project manager
- computer graphics designer
- 2D and 3D animation designer

HIGH SCHOOL OR LESS

- product tester
- library/information clerk



Job opportunities vary across Canada

Job opportunities exist in every part of Canada. The most promising ones are listed below. Maybe you need information at the national level. Or perhaps you want information that applies to your province or territory. Simply check out the appropriate website.

YUKON

- >> Accountants & Auditors
- >> Community & Social Service Workers
- >> Contractors & Supervisors, Trades
- >> Elementary & Secondary School Teachers
- >> Finance & Insurance Clerks
- >> Food Service & Accommodation Managers
- >> Policy & Program Professionals
- >> Registered Nurses
- >> Retail Trade Managers
- >> Secretaries

www.workfutures.yk.ca

BRITISH COLUMBIA

- >> Assisting Occupations in Graphic & Digital Arts, and Technical Occupations in Motion Pictures, Television & Theatre
- >> Chefs & Cooks
- >> Computer Systems Analysts & Programmers
- >> Graphic Designers & Illustrating Artists, and Artisans & Craftpersons
- >> Managers in Accommodation, Food & Retail Trade
- >> Professional Engineers
- >> Registered Nurses
- >> Social Workers and Community & Social Service Workers
- >> Technical Sales Specialists & Representatives, Wholesale

www.workfutures.bc.ca
www.workfutures.bc.ca/EN/acc/doc/hoo_et.html

ALBERTA

- >> Assisting Occupations in Support of Health Services
- >> Auditors, Accountants & Investment Professionals
- >> Carpenters & Cabinetmakers
- >> Computer & Information Systems Professionals
- >> Electrical Trades & Telecommunications Occupations
- >> Nursing Supervisors & Registered Nurses
- >> Pharmacists, Dietitians & Nutritionists
- >> Plumbers, Pipefitters & Gasfitters
- >> Retail Salespersons & Sales Clerks
- >> Technical Occupations in Civil, Mechanical & Industrial Engineering

www.ab.hrdc-drhc.gc.ca/lmi/home_e.shtml
www.alis.gov.ab.ca/main.asp

SASKATCHEWAN

- >> Auditors, Accountants & Investment Professionals
- >> Machining, Metalworking & Woodworking Machine Operators
- >> Machinists & Related Occupations
- >> Motor Vehicle & Transit Drivers
- >> Nurse Supervisors & Registered Nurses
- >> Pharmacists, Dietitians & Nutritionists
- >> Physicians, Dentists & Veterinarians
- >> Sales & Service Supervisors
- >> Systems Analysts & Computer Programmers
- >> Therapy & Assessment Professionals

www.sk.hrdc-drhc.gc.ca/jobfutures

NATIONAL

- >> Aircraft Mechanics
- >> Computer Systems Analysts & Engineers
- >> Health Care Professionals (Doctors, Dentists, Chiropractors, Optometrists, Nurses)
- >> Human Resources & Business Service Professionals
- >> Medical Technologists & Technicians
- >> Paralegal & Related Occupations
- >> Physical Science Professionals
- >> Police Officers & Firefighters
- >> Sales, Marketing & Advertising Managers
- >> University & College Professors

www.jobfutures.ca

MANITOBA

- >> Accountants
- >> Aircraft Engine Mechanics
- >> CNC Machinists & Machine Tool Operators
- >> Customer Service/Information Clerks
- >> Doctors/Physicians
- >> Industrial Engineering Technologists & Technicians (with Quality Control experience)
- >> Information Systems Project Managers
- >> Motor Vehicle Mechanics
- >> Pharmacists
- >> Registered Nurses

www.mb.hrdc-drhc.gc.ca/menu/lmi.shtml
www.edu.gov.mb.ca/tce/carjob/occ_car_info/occ_car_info.html

PRINCE EDWARD ISLAND

- >> Aircraft Mechanics & Inspectors
- >> Computer Systems Analysts & Computer Programmers
- >> Customer Service, Information & Related Clerks
- >> Food & Beverage Servers
- >> Hairstylists & Barbers
- >> Long Haul Truck Drivers
- >> Motor Vehicle Mechanics, Technicians & Mechanical Repairers
- >> Registered Nurses
- >> Retail Salespersons & Sales Clerks
- >> School Teachers

www.pei.jobfutures.org/en/frames/home.html

NEWFOUNDLAND

- >> Civil Engineers
- >> Computer Programmers
- >> Deck Officers, Water Transport
- >> Financial Auditors & Accountants
- >> General Practitioners & Family Physicians
- >> Pharmacists
- >> Registered Nurses
- >> Respiratory Therapists
- >> School & Guidance Counsellors
- >> Veterinarians

www.nf.hrdc-drhc.gc.ca/lmi/index.htm
www.gov.nf.ca

NOVA SCOTIA

- >> Computer Programmers
- >> Computer Systems Analysts
- >> General Practitioners & Family Physicians
- >> Managers in Engineering, Architecture, Science & Information Systems
- >> Nurse Supervisors & Registered Nurses
- >> Pharmacists
- >> Professional Occupations in Business Services to Managers
- >> Psychologists
- >> Retail Salespersons & Sales Clerks
- >> Secondary & Elementary School Teachers

www.ns.hrdc-drhc.gc.ca/english/index.htm
www.ednet.ns.ca

NEW BRUNSWICK

- >> Carpenters
- >> Community & Social Service Workers
- >> Computer Programmers
- >> Computer Systems Analysts
- >> General Practitioners
- >> Occupations in Business Services to Management
- >> Plumbers
- >> Registered Nurses
- >> Specialist Physicians
- >> University Professors

www.nb.hrdc-drhc.gc.ca/common/lmi/jobf/nofrmj.shtml

QUEBEC

- >> Computer Systems Analysts & Programmers
- >> Customer Service, Information & Related Clerks
- >> Engineers, notably Electric & Electronic, Computer & Aerospace
- >> Human Resources & Business Service Professionals
- >> Instructors & Teachers of Persons with Disabilities
- >> Landscaping & Grounds Maintenance Contractors & Managers
- >> Registered Nurses
- >> Technical Occupations in Electronics & Electrical Engineering
- >> Technical Sales Specialists, Wholesale Trade
- >> Translators, Terminologists & Interpreters

www.qc.hrdc-drhc.gc.ca/job-futures
www.emploiQuebec.net/indexang.htm

ONTARIO

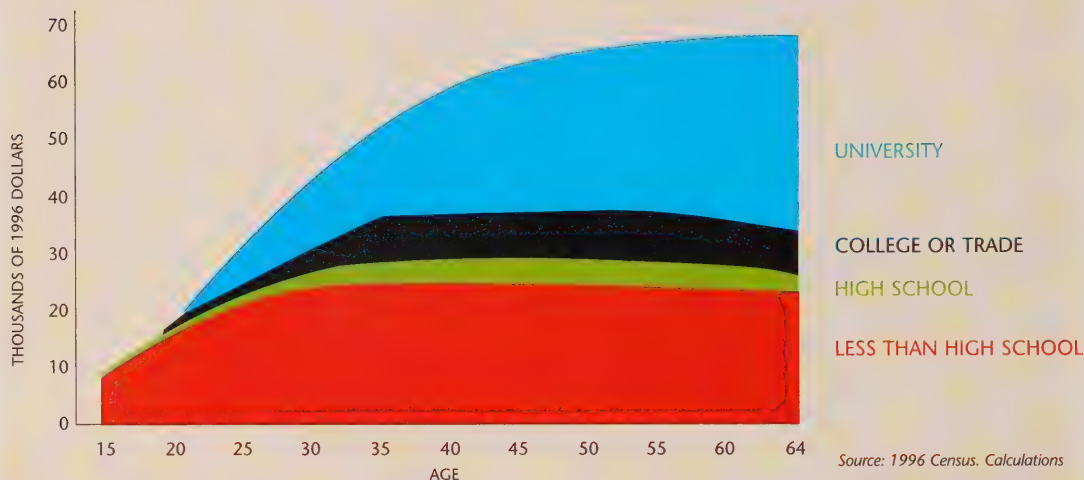
- >> Chefs
- >> Chemical Engineers
- >> Computer Systems Analysts
- >> Construction Skilled Trades
- >> Electronic Service Technicians (Household & Business Equipment)
- >> Machinists
- >> Mechanical Engineers
- >> Registered Nurses
- >> Secondary & Elementary School Teachers
- >> Tool & Die Makers

www.ontariojobfutures.net

More education can mean better jobs and pay

Should you continue your education after high school? That depends on your interests, your skills, your talents and the sort of job you want.

HOW EDUCATION AFFECTS LIFETIME EARNINGS



As you can see, people with education beyond high school usually start at higher earnings and continue to earn more throughout their working life.

THE COST OF EDUCATION PAYS OFF

Studies show that even when you take into account the cost of post-secondary education and the earnings you forego while getting that education, you still come out ahead in the long run. This is generally true for all jobs.

YOUR CHANCES OF FINDING A JOB GENERALLY INCREASE WITH A HIGHER LEVEL OF EDUCATION/TRAINING

On average, 6% of workers are unemployed. But in occupations that most often require a university degree the rate is 2.9%; those that require a college or trade diploma, 5.2%. For jobs requiring less than high school the rate climbs to 10.9%.

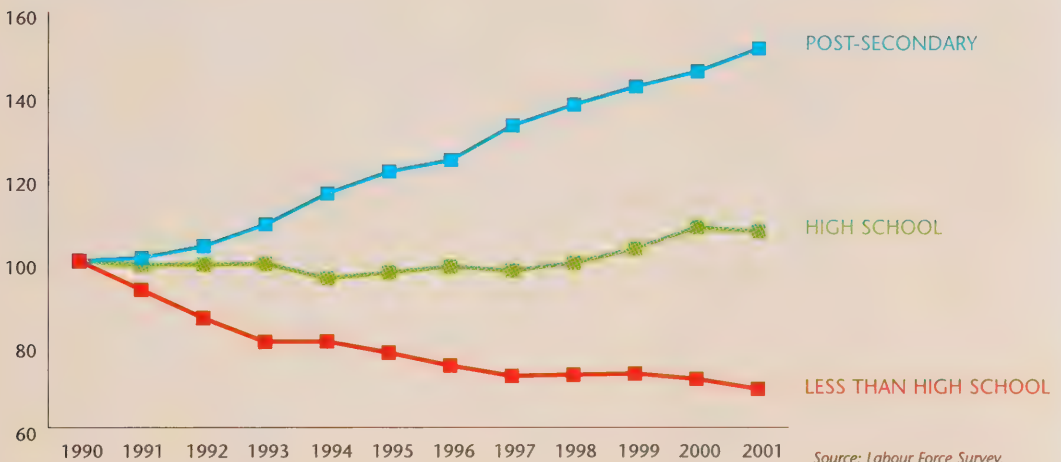
THINK CAREFULLY BEFORE YOU CHOOSE

Education is only one thing to consider. What is the future of the job you are interested in? Do you have the skills and talents for the job you would like? What does it pay? Are employers hiring for that job? Will there always be a need for it?

Education and skills are the **key** to getting **work**

Most of the new job openings in the 1990s were concentrated in sectors requiring more education and skills, such as in health, natural and applied sciences, social science, and business and finance.

EMPLOYMENT GROWTH BY LEVEL OF EDUCATION
(INDEX 1990 = 100)



MOST OF THE NEW JOB OPENINGS NOW REQUIRE POST-SECONDARY EDUCATION

By 2007, about 70% of all new job openings will require some form of post-secondary education. Over the next 5 years, the most promising jobs will require a university or college education.

EVEN THE MORE "TRADITIONAL" OCCUPATIONS NOW REQUIRE HIGHER SKILLS

Not only do Canadian workers need to have the right education level, they also need to upgrade their skills over the course of their working lives.

Truck drivers now need to know how to use global positioning systems (GPS), crane operators work with sophisticated onboard computers, and individual investors conduct stock market transactions from their home computers.

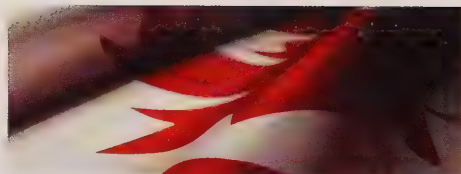


Tables

The following two tables present a summary of labour market indicators and outlooks for each of the 226 occupations and 155 fields of study described in *Job Futures*.

The first table (p. 17), *Labour Market Indicators and Outlooks by OCCUPATION*, groups the occupations into nine major work sectors for ease of reference. Occupations are listed numerically by NOC (National Occupational Classification) code.

The second table (p. 22), *Labour Market Indicators and Outlooks by FIELD OF STUDY*, groups the fields of study into four levels of education. Fields of study are listed alphabetically within each level for easy reference. The coding structure used is the FOSC (Field of Study Classification), which is also found in *Job Futures*.



CANADA'S INNOVATION
STRATEGY

Labour market indicators and outlooks by Occupation

NOC	OCCUPATIONS	AVERAGE HOURLY WAGE (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
	All Occupations	16.91	4.8	FAIR
	1 – BUSINESS, FINANCE AND ADMINISTRATION	18.66	3.4	FAIR
0111	Financial Managers	28.41	2.3	Good
0112	Human Resource Managers	29.89	2.9	Good
0121	Insurance, Real Estate and Financial Brokerage Managers	28.39	1.5	Good
0122	Banking, Credit and Investment Managers	26.80	2.0	Fair
013	Managers in Communication (Except Broadcasting)	28.09	1.4	Fair
1111	Financial Auditors and Accountants	22.62	2.3	Fair
1112	Financial and Investment Analysts	24.51	1.9	Fair
1113	Securities Agents, Investment Dealers and Brokers	24.90	4.4	Fair
1121	Specialists in Human Resources	24.68	1.6	Good
1122	Occupations in Professional Business Services to Management	26.22	3.3	Good
121	Clerical Supervisors	18.38	1.8	Fair
1221	Administrative Officers	17.24	3.0	Fair
1222	Executive Assistants	18.60	2.9	Fair
1224	Property Administrators	16.87	3.8	Limited
1225	Purchasing Agents and Officers	20.15	2.6	Fair
123	Finance and Insurance Administrative Occupations	16.59	2.1	Fair
1231	Bookkeepers	14.12	2.6	Fair
1232	Loan Officers	17.89	1.6	Fair
124	Secretaries, Records and Transcriptionists	14.72	3.6	Limited
141	Clerical Occupations, General Office Skills	12.99	5.1	Limited
142	Office Equipment Operators	14.46	6.2	Limited
1431	Accounting and Related Clerks	14.84	3.6	Fair
1432	Payroll Clerks	16.75	3.0	Fair
1433	Customer Service Representatives – Financial Services	13.11	2.3	Fair
1434	Banking, Insurance and Other Financial Clerks	14.75	2.9	Fair
144	Administrative Support Clerks	15.69	3.4	Fair
145	Library, Correspondence and Related Information Clerks	13.60	5.4	Fair
1453	Customer Service, Information and Related Clerks	14.01	3.6	Fair
146	Mail and Message Distribution Occupations	14.52	4.2	Limited
1463	Couriers, Messengers and Door-To-Door Distributors	11.30	5.5	Limited
147	Recording, Scheduling and Distributing Occupations	14.21	5.4	Fair
1471	Shippers and Receivers	13.33	6.0	Fair
	2 – NATURAL AND APPLIED SCIENCES	23.64	3.4	GOOD
0210	Engineering, Science and Architecture Managers	32.10	3.3	Fair
0213	Computer and Information Systems Managers	31.34	2.4	Good
211	Physical Science Professionals	26.68	2.2	Good
212	Life Science Professionals	24.41	2.5	Fair
213	Civil, Mechanical, Electrical and Chemical Engineers	29.05	2.9	Good
2131	Civil Engineers	27.94	2.5	Good
2132	Mechanical Engineers	28.10	3.1	Good
2133	Electrical and Electronics Engineers	30.92	2.9	Good
214	Other Engineers	29.69	2.6	Good
2147	Computer Engineers	31.41	2.3	Good
215	Architects, Urban Planners and Land Surveyors	24.02	3.1	Fair
216	Mathematicians, Systems Analysts and Computer Programmers	24.97	3.4	Good
2162	Computer Systems Analysts	25.46	3.1	Good
2163	Computer Programmers	23.50	4.1	Fair
221	Technical Occupations in Physical Sciences	20.43	3.3	Fair
2211	Chemical Technologists and Technicians	20.09	2.6	Fair
222	Technical Occupations in Life Sciences	19.42	7.3	Limited
223	Technical Occupations in Manufacturing and Industrial Engineering	21.82	3.1	Fair
224	Technical Occupations in Electrical and Electronics Engineering	20.06	3.7	Good
2241	Electrical and Electronics Engineers, Technologists and Technicians	22.05	3.2	Fair
2242	Electronic Service Technicians (Business Equipment)	18.59	4.2	Good
225	Technical Occupations in Architecture, Surveying and Mapping	20.17	4.0	Fair
2253	Drafting Technologists and Technicians	19.88	3.9	Fair
226	Other Technical Inspectors and Technicians	23.97	2.9	Fair
227	Transportation Officers and Conductors	26.78	3.5	Fair
2271	Air Pilots, Flight Engineers and Flight Attendants	28.43	3.9	Fair

Labour market indicators and outlooks by Occupation

NOC	OCCUPATIONS	AVERAGE HOURLY WAGE (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
3 – HEALTH		23.09	1.3	GOOD
0311	Managers in Health Care	27.02	1.5	Good
3111	Specialist Physicians	22.22	0.3	Good
3112	General Practitioners and Family Physicians	22.96	0.6	Good
3113	Dentists	30.38	0.4	Good
312	Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals	16.86	0.3	Good
313	Pharmacists, Dietitians and Nutritionists	26.64	0.7	Good
3131	Pharmacists	27.84	0.5	Good
314	Therapy and Assessment Professionals	23.95	1.1	Fair
3142	Physiotherapists	24.30	0.9	Fair
3143	Occupational Therapists	23.95	0.9	Fair
315	Nursing Supervisors and Registered Nurses	23.07	0.8	Good
321	Medical Technologists and Technicians (Except Dental)	19.96	1.5	Good
3211	Medical Laboratory Technologists and Pathologists' Assistants	22.34	0.6	Good
3212	Medical Laboratory Technicians	18.57	2.3	Fair
3215	Medical Radiation Technologists	22.20	0.9	Good
322	Technical Occupations in Dental Health Care	23.28	1.7	Good
3222	Dental Hygienists and Therapists	26.18	1.5	Good
323	Other Technical Occupations in Health Care (Except Dental)	17.28	1.1	Good
3233	Licensed Practical Nurses	17.18	1.0	Good
3234	Ambulance Attendants and Other Paramedical Occupations	18.73	1.6	Good
341	Assisting Occupations in Support of Health Services	13.67	2.4	Fair
3413	Nurse Aides, Orderlies and Patient Service Associates	13.60	2.2	Fair
6631	Elemental Medical and Hospital Assistants	13.86	1.1	Good
4 – SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION		23.83	2.8	FAIR
0312	Administrators – Post-Secondary Education and Vocational Training	26.74	0.5	Good
0313	School Principals and Administrators of Elementary/Secondary Education	30.42	0.8	Good
0314	Managers in Social, Community and Correctional Services	22.52	1.9	Good
041	Managers in Public Administration	31.19	0.7	Good
411	Judges, Lawyers and Quebec Notaries	29.75	1.3	Good
412	University Professors and Assistants	22.97	4.5	Good
4121	University Professors	28.77	2.3	Good
4131	College and Other Vocational Instructors	25.00	4.3	Good
4141	Secondary School Teachers	25.93	2.1	Fair
4142	Elementary School and Kindergarten Teachers	24.43	1.8	Fair
4143	Educational Counsellors	25.32	3.0	Fair
4151	Psychologists	27.12	0.5	Good
4152	Social Workers	22.32	2.4	Fair
4153	Family, Marriage and Other Related Counsellors	19.33	3.2	Fair
416	Policy and Program Officers, Researchers and Consultants	23.72	3.0	Fair
4160	Health and Social Policy Researchers, Consultants and Program Officers	24.00	2.9	Fair
4163	Business Development Officers and Marketing Researchers and Consultants	24.76	3.8	Fair
421	Paralegals, Social Services Workers and Occupations in Education and Religion	17.32	3.4	Fair
4211	Paralegal and Related Occupations	18.85	1.9	Good
4212	Community and Social Service Workers	15.84	3.3	Fair
4213	Employment Counsellors	18.73	4.7	Fair
4215	Instructors and Teachers of Persons with Disabilities	20.13	3.8	Fair
6470	Early Childhood Educators and Assistants	11.33	3.9	Fair
6472	Elementary and Secondary School Teacher Assistants	13.78	6.2	Limited

Labour market indicators and outlooks by Occupation

NOC	OCCUPATIONS	AVERAGE HOURLY WAGE (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
5 – ART, CULTURE, RECREATION AND SPORT				
051	Managers in Art, Culture, Recreation and Sport	18.63	5.2	FAIR
511	Librarians, Archivists, Conservators and Curators	23.56	1.9	Fair
5111	Librarians	19.93	2.5	Fair
512	Writing, Translating and Public Relations Professionals	20.15	2.3	Fair
5121	Authors and Writers	21.35	3.4	Fair
5122	Editors	21.18	2.6	Fair
5124	Professional Occupations in Public Relations and Communications	23.45	3.3	Fair
5125	Translators, Terminologists and Interpreters	20.88	3.7	Fair
513	Creative and Performing Artists	20.15	5.9	Fair
521	Technical Occupations in Libraries, Archives, Museums and Art Galleries	19.46	4.0	Fair
522	Photographers, Graphics Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts	15.30	6.8	Limited
5221	Photographers	16.78	7.8	Fair
523	Announcers and Other Performers	16.34	4.1	Fair
524	Creative Designers and Craftpersons	15.60	9.1	Limited
5241	Graphic Designers and Illustrators	16.77	4.0	Fair
5242	Interior Designers	17.68	4.1	Fair
525	Athletes, Coaches, Referees and Related Occupations	19.12	2.9	Fair
5254	Program Leaders and Instructors in Recreation and Sport	11.18	8.8	Limited
		11.12	8.4	Limited
6 – SALES AND SERVICE				
0611	Sales, Marketing and Advertising Managers	15.27	4.9	LIMITED
0621	Retail Trade Managers	28.06	2.2	Good
063	Managers in Food Service and Accommodation	17.81	1.7	Good
0651	Managers in Other Services	14.55	2.8	Fair
621	Sales and Service Supervisors	20.13	1.7	Fair
6221	Technical Sales Specialists – Wholesale Trade	13.25	3.0	Good
6231	Insurance Agents and Brokers	19.38	3.5	Good
6232	Real Estate Agents and Salespersons	17.40	1.3	Fair
6233	Retail and Wholesale Buyers	17.23	1.3	Fair
6241	Chefs	16.09	2.3	Fair
6242	Cooks	13.19	5.6	Fair
6251	Butchers and Meat Cutters – Retail and Wholesale	9.29	7.8	Limited
6252	Bakers	11.66	4.3	Limited
6261	Police Officers (Except Commissioned)	10.45	5.6	Limited
6262	Firefighters	24.57	0.5	Good
627	Technical Occupations in Personal Service	23.15	0.8	Good
6411	Sales Representatives – Wholesale Trade (Non-Technical)	10.94	1.5	Fair
6421	Retail Salespersons and Sales Clerks	17.92	3.3	Fair
643	Occupations in Travel and Accommodation	10.22	5.6	Limited
6431	Travel Counsellors	13.41	4.5	Fair
644	Tour and Recreational Guides and Casino Occupations	13.41	4.4	Fair
645	Occupations in Food and Beverage Service	11.37	22.9	Limited
647	Child Care and Home Support Workers	9.52	6.8	Limited
6471	Visiting Homemakers, Housekeepers and Related Occupations	11.65	5.0	Limited
648	Other Occupations in Personal Services	10.81	4.0	Limited
6611	Cashiers	10.25	3.3	Fair
662	Other Sales and Related Occupations	8.41	5.3	Limited
664	Food Counter Attendants, Kitchen Helpers and Related Occupations	8.99	8.1	Limited
6651	Security Guards and Related Occupations	8.45	7.7	Limited
666	Cleaners	11.61	5.0	Fair
667	Other Occupations in Travel, Accommodation, Amusement and Recreation	11.45	6.7	Limited
668	Other Elemental Service Occupations	11.27	10.0	Limited
		10.03	6.2	Limited

Labour market indicators and outlooks by Occupation

NOC	OCCUPATIONS	AVERAGE HOURLY WAGE (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
7 – TRADES, TRANSPORT AND EQUIPMENT OPERATORS		17.44	6.6	FAIR
071	Managers in Construction and Transportation	26.64	1.9	Good
0711	Construction Managers	26.76	1.8	Good
072	Facility Operation and Maintenance Managers	22.18	5.5	Fair
721	Contractors and Supervisors, Trades and Related Workers	22.00	2.5	Good
722	Supervisors, Railway and Motor Transportation Occupations	21.63	1.7	Good
7231	Machinists and Machining and Tooling Inspectors	18.00	3.8	Fair
7232	Tool and Die Makers	20.86	2.5	Fair
724	Electrical Trades and Telecommunications Occupations	21.30	5.0	Fair
7241	Electricians (Except Industrial and Power Systems)	19.70	7.1	Fair
7242	Industrial Electricians	22.98	3.7	Fair
7246	Telecommunications Installation and Repair Workers	21.16	2.4	Fair
725	Plumbers, Pipefitters and Gas Fitters	20.49	6.8	Fair
726	Metal Forming, Shaping and Erecting Trades	20.87	11.6	Limited
7271	Carpenters	16.97	11.0	Limited
7272	Cabinetmakers	14.53	6.4	Limited
728	Masonry and Plastering Trades	19.31	10.9	Fair
729	Other Construction Trades	16.31	11.0	Fair
731	Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)	20.44	3.5	Fair
7311	Construction Millwrights and Industrial Mechanics (Except Textile)	20.93	3.9	Fair
7312	Heavy-Duty Equipment Mechanics	19.30	3.4	Fair
7315	Aircraft Mechanics and Aircraft Inspectors	21.71	0.8	Good
732	Automotive Service Technicians	16.12	3.9	Fair
733	Other Mechanics	16.16	3.8	Fair
734	Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations	12.26	4.9	Limited
7342	Tailors, Dressmakers, Furriers and Milliners	10.70	6.0	Limited
735	Stationary Engineers and Power Station and System Operators	21.71	2.1	Fair
736	Train Crew Operating Occupations	23.29	2.0	Limited
737	Crane Operators, Drillers and Blasters	20.06	6.8	Fair
738	Printing Press Operators, Commercial Divers and Other Trades	17.94	4.8	Limited
741	Motor Vehicle and Transit Drivers	14.94	5.2	Fair
7411	Truck Drivers	15.68	5.5	Fair
7412	Bus Drivers and Subway and Other Transit Operators	15.65	5.3	Fair
742	Heavy Equipment Operators	17.52	11.9	Fair
743	Other Transport Equipment Operators and Related Workers	17.03	6.4	Limited
744	Other Installers, Repairers and Servicers	13.83	7.4	Fair
745	Longshore Workers and Material Handlers	13.75	9.1	Limited
761	Trades Helpers and Labourers	13.93	20.4	Limited
762	Public Works and Other Labourers	15.39	12.2	Limited
8 – PRIMARY INDUSTRY		17.23	9.4	LIMITED
0811	Managers in Primary Production (Except Agriculture)	30.82	1.3	Fair
8211	Supervisors, Logging and Forestry	20.94	5.5	Fair
822	Supervisors, Mining, Oil and Gas	23.81	2.4	Good
823	Underground Miners, Oil and Gas Drillers and Related Workers	21.50	6.1	Fair
8241	Logging Machinery Operators	18.05	16.7	Limited
825	Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture	14.63	1.6	Limited
826	Fishing Vessel Masters, Skippers and Fishermen/women	14.29	11.7	Limited
841	Mine Service Workers and Operators in Oil and Gas Drilling	20.18	7.6	Fair
842	Logging and Forestry Workers	16.41	23.9	Limited
8431	General Farm Workers	10.01	10.1	Limited
8432	Nursery and Greenhouse Workers	10.33	15.1	Limited
844	Other Fishing and Trapping Occupations	12.74	40.5	Limited
861	Primary Production Labourers	12.84	22.2	Limited

Labour market indicators and outlooks by Occupation

NOC	OCCUPATIONS	AVERAGE HOURLY WAGE (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
	9 – PROCESSING, MANUFACTURING AND UTILITIES	16.06	6.9	FAIR
091	Managers in Manufacturing and Utilities	28.27	2.2	Good
921	Supervisors, Processing Occupations	20.12	2.6	Good
922	Supervisors, Assembly and Fabrication	19.71	3.4	Fair
923	Central Control and Process Operators in Manufacturing and Processing	22.55	1.9	Fair
941	Machine Operators and Related Workers in Metal and Mineral Products Processing	17.21	5.7	Fair
942	Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing	15.11	5.2	Fair
943	Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing	17.58	5.9	Fair
944	Machine Operators and Related Workers in Textile Processing	11.83	8.6	Limited
945	Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing	9.60	8.9	Limited
946	Machine Operators and Related Workers in Food, Beverage and Tobacco Processing	13.61	10.1	Limited
947	Printing Machine Operators and Related Occupations	13.88	6.0	Limited
948	Mechanical, Electrical and Electronics Assemblers	16.73	6.5	Fair
9482	Motor Vehicle Assemblers, Inspectors and Testers	20.65	6.5	Limited
9483	Electronics Assemblers, Fabricators, Inspectors and Testers	13.05	6.4	Fair
949	Other Assembly and Related Occupations	12.97	8.6	Fair
951	Machining, Metalworking, Woodworking and Related Machine Operators	15.99	6.5	Fair
9510	Welders and Soldering Machine Operators	17.33	7.4	Fair
9511	Machining Tool Operators	16.54	5.1	Fair
9514	Metalworking Machine Operators	15.21	5.7	Limited
961	Labourers in Processing, Manufacturing and Utilities	12.70	10.9	Limited

Source: Labour Force Survey, Statistics Canada, and Applied Research Branch, HRDC

Labour market indicators and outlooks

by Field of Study

CODE	FIELDS OF STUDY	AVERAGE EARNINGS (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
TRADE/VOCATIONAL				
	TOTAL	25,800	15.4	FAIR
T110	Accounting	18,900	21.9	Fair
T610	Agricultural Technologies	24,400	7.2	Limited
T334	Architectural Design and Drafting Technologies	19,500	1.0	Fair
T312	Auto Body Repair	24,200	13.0	Fair
T313	Auto Mechanic	23,600	12.9	Fair
T121	Business Administration	24,700	15.9	Fair
T350	Civil Engineering Technologies	37,300	7.0	Fair
T720	Computer Science	29,300	15.4	Good
T332	Construction Technologies	29,000	19.0	Limited
T810	Cooking	21,300	19.9	Limited
T040	Creative and Design Arts	16,500	20.9	Limited
T531	Dental Hygiene/Assistant Technologies	22,800	2.0	Fair
T335	Drafting Technologies	26,000	6.7	Fair
T362	Electrical/Electronic Engineering Technologies	28,500	15.1	Fair
T811	Food Preparation – Other	22,100	11.1	Limited
T631	Food Processing Technologies	23,100	12.7	Limited
T060	Graphic and Audio-Visual Arts	23,200	26.8	Fair
T314	Heavy Equipment Mechanic	32,100	13.0	Fair
T383	Machining	29,100	3.6	Fair
T381	Manufacturing Engineering Technologies	29,600	15.5	Fair
T315	Mechanical Engineering Technologies – Other	34,300	12.4	Fair
T561	Nursing – Other	28,800	7.3	Good
T562	Nursing Aide/Orderly	21,400	10.4	Good
T070	Personal Arts	14,200	17.2	Fair
T141	Retail Sales	21,400	4.2	Fair
T150	Secretary – Accounting and Bookkeeping (Office admin.)	23,200	25.8	Limited
T151	Secretary – General (Office admin.)	20,700	25.2	Limited
T152	Secretary – Legal (Office admin.)	25,100	23.1	Limited
T153	Secretary – Medical (Office admin.)	22,800	10.0	Fair
T155	Secretary – Word Processing (Office admin.)	19,100	23.3	Limited
T812	Service Industries Technologies – Other	25,000	13.0	Limited
T891	Social Services	22,100	14.7	Fair
T390	Transportation Engineering Technologies	27,500	8.8	Limited
T333	Welding	32,100	21.3	Fair

CODE	FIELDS OF STUDY	AVERAGE EARNINGS (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
COMMUNITY COLLEGE/CEGEP TOTAL				
	CEGEP TOTAL	27,500	9.3	FAIR
C110	Accounting	25,200	5.9	Fair
C610	Agricultural Technologies	25,300	6.0	Limited
C331	Architectural and Construction Technologies – Other	31,100	9.4	Fair
C334	Architectural Design and Drafting Technologies	28,100	11.2	Fair
C121	Business Administration	25,800	13.2	Fair
C340	Chemical Engineering Technologies	29,800	7.4	Fair
C350	Civil Engineering Technologies	30,500	16.4	Fair
C030	Commercial and Promotional Arts	26,700	7.7	Fair
C720	Computer Science	32,900	10.6	Good
C040	Creative and Design Arts	21,200	19.6	Fair
C531	Dental Hygiene/Assistant Technologies	26,000	1.1	Good
C210	Education and Counselling	22,000	7.1	Fair
C362	Electrical/Electronic Engineering Technologies	30,900	5.7	Fair
C370	Engineering Technologies – Other	30,400	6.2	Fair
C640	Environmental and Conservation Technologies	28,200	14.6	Limited
C111	Financial Management – Other	25,600	10.9	Fair
C050	Fine Arts	20,700	9.7	Fair
C641	Forestry Technologies	31,000	14.7	Fair
C060	Graphic and Audio-Visual Arts	24,500	5.2	Fair
C523	Health Technologies – Other	26,900	13.6	Fair
C380	Industrial Engineering Technologies	32,300	9.3	Fair
C131	Institutional Management	24,000	7.7	Fair
C382	Instrumentation	36,800	10.8	Fair
C140	Marketing	29,700	5.1	Good
C410	Mass Communications	29,700	10.1	Fair
C315	Mechanical Engineering Technologies	32,200	8.3	Fair
C550	Medical Laboratory Technologies	24,700	20.5	Good
C560	Nursing – Diploma	30,900	6.0	Good
C561	Nursing – Other	28,900	6.4	Good
C660	Primary Technologies – Other	43,800	5.6	Fair
C841	Protection and Correction Services	27,300	6.1	Good
C580	Radiography/Radiation Therapy/Nuclear Medicine Technologies	37,700	4.1	Good
C670	Resource Processing Technologies	35,700	3.8	Limited
C141	Retail Sales	20,300	8.2	Good
C151	Secretary – General (Office admin.)	21,800	10.6	Limited
C152	Secretary – Legal (Office admin.)	23,300	14.3	Limited
C153	Secretary – Medical (Office admin.)	23,200	7.5	Fair
C812	Service Industries Technologies	22,800	6.9	Fair
C891	Social Services	25,000	7.6	Fair
C893	Sports and Recreation	21,500	11.3	Fair
C351	Surveying (Geomatics)	36,600	8.2	Fair
C390	Transportation Engineering Technologies	35,900	12.4	Fair



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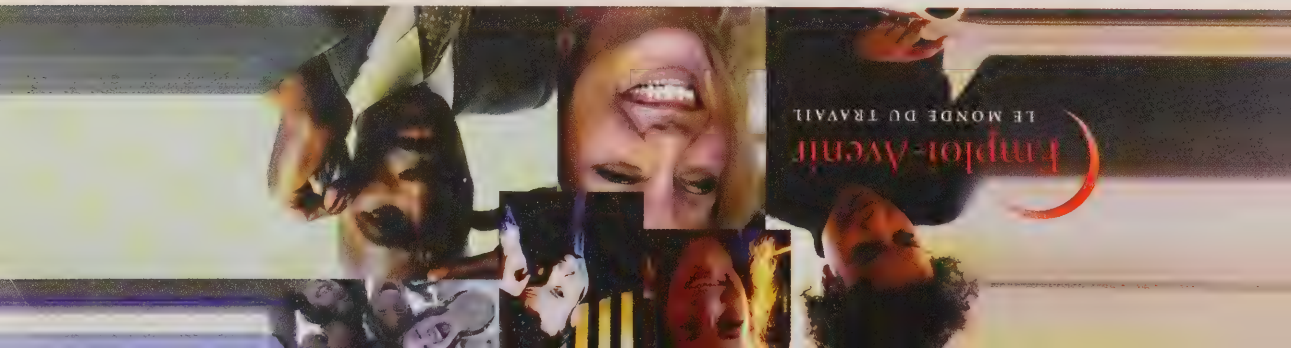


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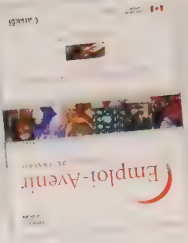
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Labour market indicators and outlooks

by Field of Study

CODE	FIELDS OF STUDY	AVERAGE EARNINGS (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
	UNIVERSITY UNDERGRADUATE TOTAL	33,600	9.2	FAIR
U613	Agriculture – Other	30,200	2.1	Limited
U612	Animal and Plant Sciences	33,800	6.0	Fair
U010	Applied Arts	32,300	18.2	Fair
U330	Architecture	34,400	9.1	Good
U620	Biology	27,400	16.6	Fair
U340	Chemical Engineering	40,400	9.5	Good
U710	Chemistry	33,600	15.0	Good
U350	Civil Engineering	37,900	5.6	Good
U120	Commerce – Business Administration	35,100	5.9	Fair
U720	Computer Science	40,500	4.5	Good
U530	Dentistry	70,900	4.4	Good
U820	Economics	31,600	15.9	Fair
U220	Education – Non-Teaching	31,500	5.6	Fair
U360	Electrical Engineering	42,000	6.3	Good
U230	Elementary/Secondary Teacher Training	33,000	6.1	Fair
U370	Engineering – Other	39,200	4.9	Good
U402	English	27,600	20.2	Fair
U630	Food and Household Sciences	28,700	15.7	Fair
U641	Forestry	41,500	14.3	Good
U403	French	29,500	15.3	Fair
U830	Geography	26,800	11.0	Fair
U730	Geology	38,100	11.5	Good
U523	Health – Other	42,000	5.6	Good
U420	History	31,300	9.1	Fair
U840	Law	37,400	21.2	Good
U404	Linguistics, Translation and Interpretation	34,100	6.5	Fair
U410	Mass Communications	29,500	13.3	Fair
U740	Mathematics	33,200	7.2	Fair
U316	Mechanical Engineering	40,300	2.0	Good
U520	Medicine (MD)	37,600	12.7	Good
U051	Music	20,900	15.0	Fair
U560	Nursing	41,400	3.4	Good
U570	Pharmacy	47,100	4.1	Good
U240	Physical Education	30,800	6.5	Fair
U750	Physics	31,600	17.4	Good
U850	Planning and Resource Management	33,700	16.6	Fair
U860	Political Science	28,000	13.7	Fair
U870	Psychology	28,000	12.4	Fair
U590	Rehabilitation Medicine	39,300	5.5	Fair
U450	Religious and Theological Studies	32,100	9.2	Fair
U890	Social Work/Welfare	34,500	1.4	Fair
U880	Sociology	27,800	10.5	Fair
U130	Specialized Administration	30,100	0.9	Good
U250	Teaching – Other	33,900	5.4	Fair
U680	Veterinary Sciences and Medicine	35,500	4.4	Good

CODE	FIELDS OF STUDY	AVERAGE EARNINGS (\$)	UNEMPLOYMENT RATE (%)	OUTLOOK TO 2007
	MASTER'S UNIVERSITY TOTAL	47,200	8.2	GOOD
M510	Basic Medical Sciences	39,400	13.7	Good
M620	Biology	34,700	13.2	Fair
M340	Chemical Engineering	47,900	7.3	Good
M710	Chemistry	36,100	11.3	Good
M350	Civil Engineering	42,500	2.6	Good
M120	Commerce – Business Administration	56,500	4.9	Good
M720	Computer Science	48,400	3.4	Good
M820	Economics	42,100	13.0	Fair
M220	Education – Non-Teaching	52,100	2.6	Fair
M360	Electrical Engineering	52,200	1.1	Good
M230	Elementary/Secondary Teacher Training	47,300	8.1	Fair
M370	Engineering – Other	49,800	9.9	Good
M402	English	35,600	18.6	Fair
M403	French	33,600	11.9	Fair
M830	Geography	33,000	8.9	Fair
M730	Geology	44,700	2.6	Good
M523	Health – Other	52,600	4.5	Good
M420	History	27,900	9.9	Fair
M430	Library and Records Science	33,200	13.1	Fair
M404	Linguistics, Translation and Interpretation	35,300	8.1	Fair
M740	Mathematics	39,900	12.0	Fair
M316	Mechanical Engineering	44,200	8.3	Good
M521	Medical/Surgical Specialties	106,100	5.5	Good
M560	Nursing	50,800	5.4	Good
M240	Physical Education	39,600	1.0	Fair
M750	Physics	34,700	12.2	Good
M850	Planning and Resource Management	42,600	22.3	Fair
M860	Political Science	33,700	4.5	Fair
M870	Psychology	35,100	15.9	Good
M450	Religious and Theological Studies	30,200	5.6	Fair
M890	Social Work/Welfare	40,400	4.1	Fair
M880	Sociology	29,700	10.8	Fair
M130	Specialized Administration	51,800	2.5	Good
M250	Teaching – Other	53,800	1.8	Fair

Source: 1997 National Survey of 1995 Graduates, Statistics Canada and Applied Research Branch, HRDC.

Knowledge Matters:

Skills and Learning for Canadians

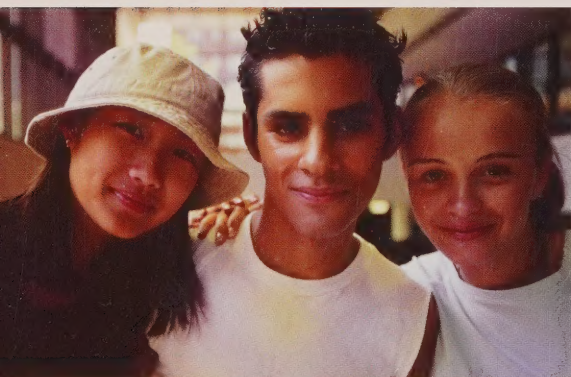
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